



MINOS+ Status Report



Donatella Torretta
All Experimenters' Meeting
May 23, 2016



Near Detector



DAQ



- A few DAQ crashes recovered within minutes

Electronics/Detector

- Again some LI issues:
 - Gains changed a week ago : LEDs problem ?
 - Investigating but most likely during summer shutdown
- Two very hot channels
 - We'll replace the Minder boards at the next opportunity
 - Bad channels are masked in offline production



Far Detector



DAQ

- No issues: ran well the whole week

Electronics/Detector

- Some HVAC alarms overnight
 - Data quality NOT affected
- No detector issues
- Taking CI special runs during beam downtimes



MINOS+ Status



Start Date/Time	End Date/Time	Near Detector		Far Detector	
		POT Fraction	Live Time Fraction	POT Fraction	Live Time Fraction
3/14/2016 00:00:00	3/28/2016 00:00:00	99.3%	96.5%	99.8%	99.5%
3/21/2016 00:00:00	3/28/2016 00:00:00	99.7%	99.7%	99.8%	99.8%
3/28/2016 00:00:00	4/4/2016 00:00:00	98.5%	96.5%	98.3%	98.2%
4/4/2016 00:00:00	4/11/2016 00:00:00	92.4%**	91.9%**	99.9%	97.9%
4/11/2016 00:00:00	4/18/2016 00:00:00	58%**	58%**	99.8%	99.8%
4/18/2016 00:00:00	4/25/2016 00:00:00	99.6%	98.3%	99.4%	99.5%
4/25/2016 00:00:00	05/02/2016 00:00:00	99.6%	99.7%	98%	98%
5/2/2016 00:00:00	5/9/2016 00:00:00	99.5%	99.6%	94.0%	93.8%
5/9/2016 00:00:00	5/16/2016 00:00:00	97.0%	94.3%	99.9%	99.5%
5/16/2016 00:00:00	5/23/2016 00:00:00	99.7%(&)	95.0%(&)	99.9%(&)	99.9%(&)

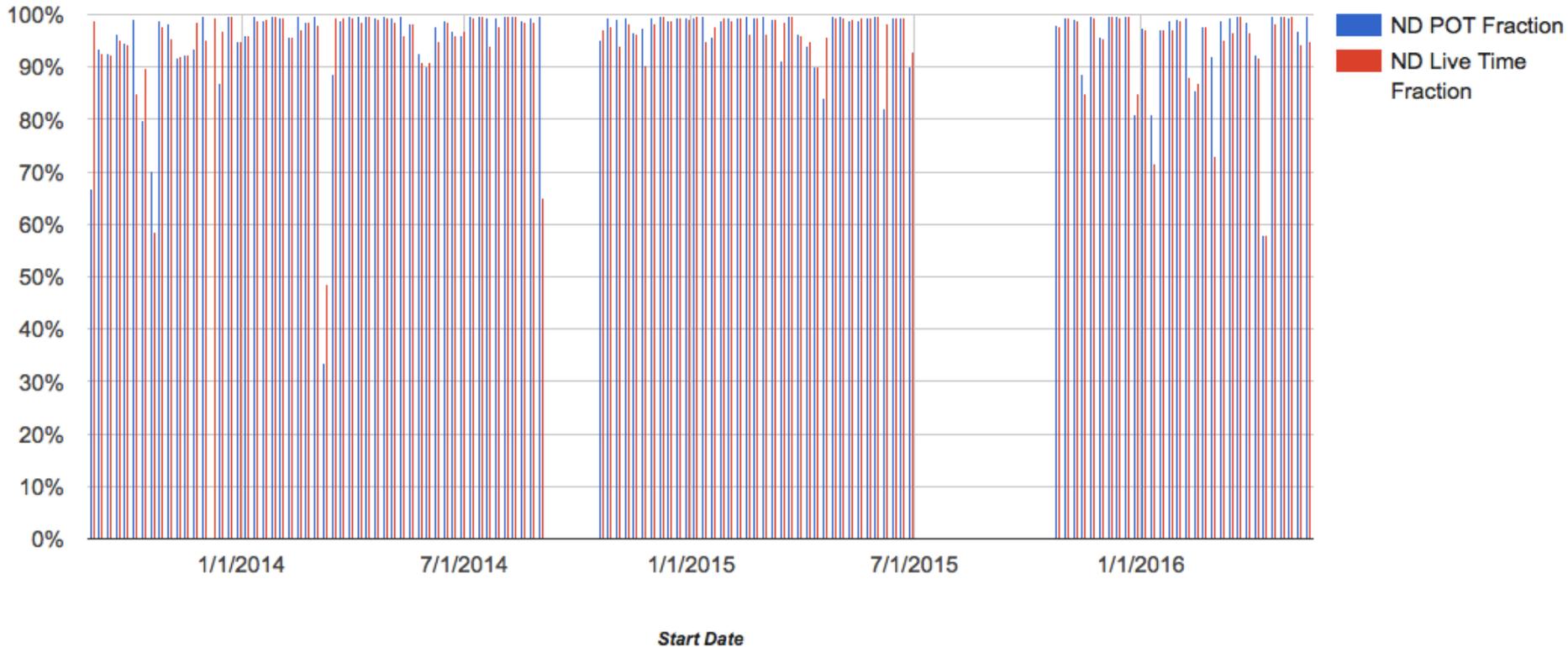
(**) LI issues (&) Only half week's info (re-making beam files)



MINOS+ ND Status



ND POT fraction and Live Time Fraction





MINOS+ FD Status



FD POT Fraction and Live Time Fraction

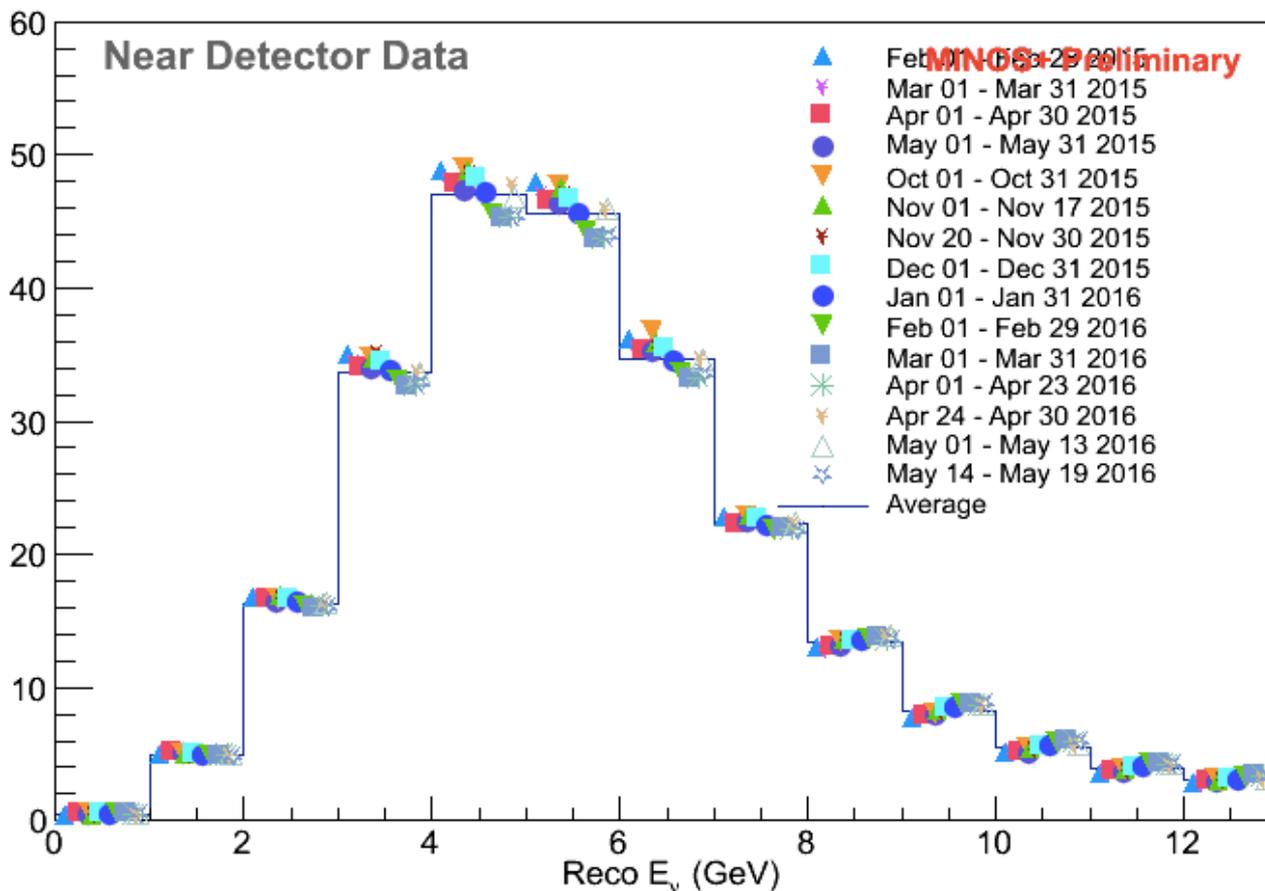




Energy Spectrum



Neutrino Energy Spectrum Stability (PQ and NQ)

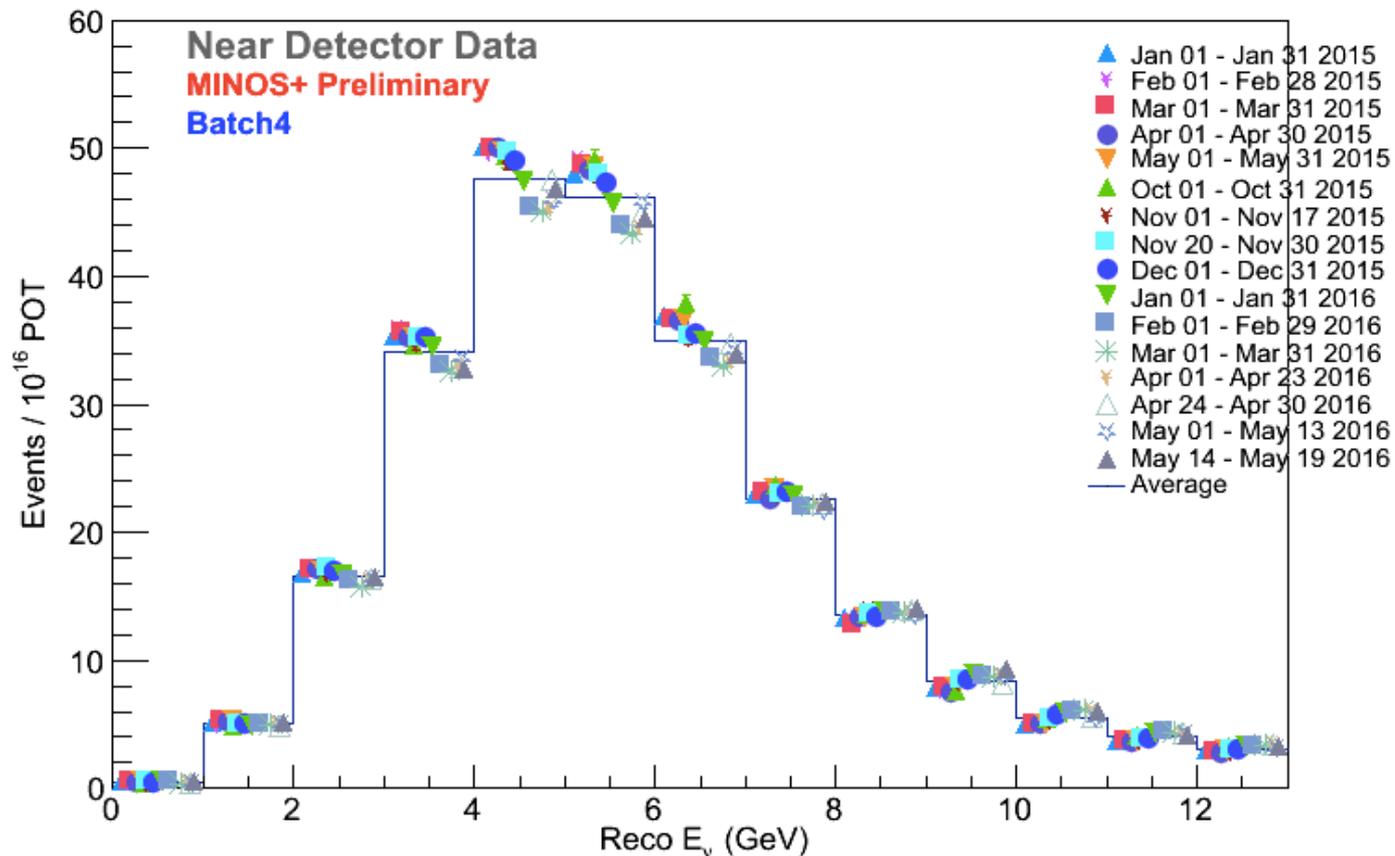




Spectrum Stability (batch #4)



Neutrino Selected Batch Energy Spectrum Stability (PQ and NQ)

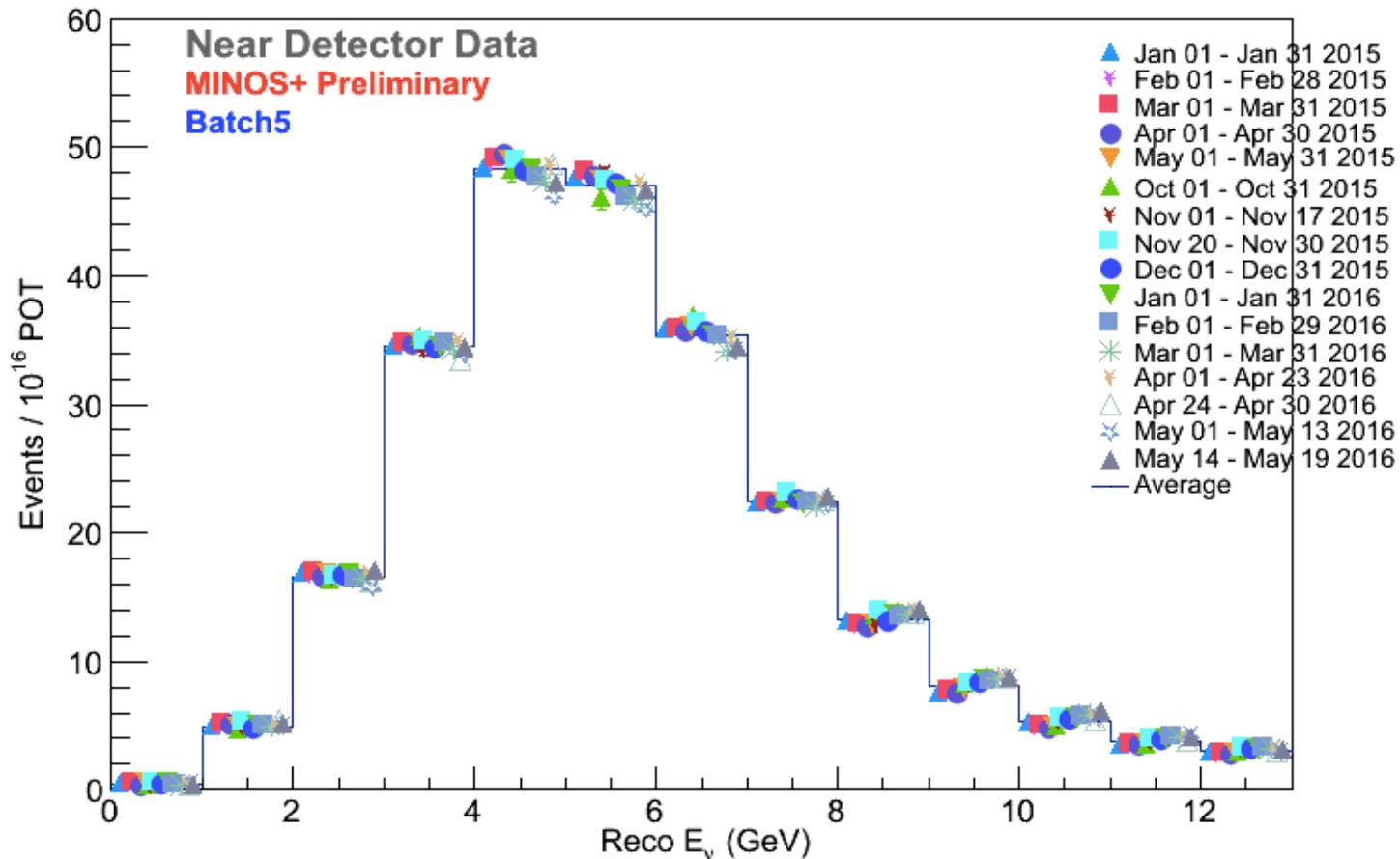




Spectrum Stability (batch #5)



Neutrino Selected Batch Energy Spectrum Stability (PQ and NQ)

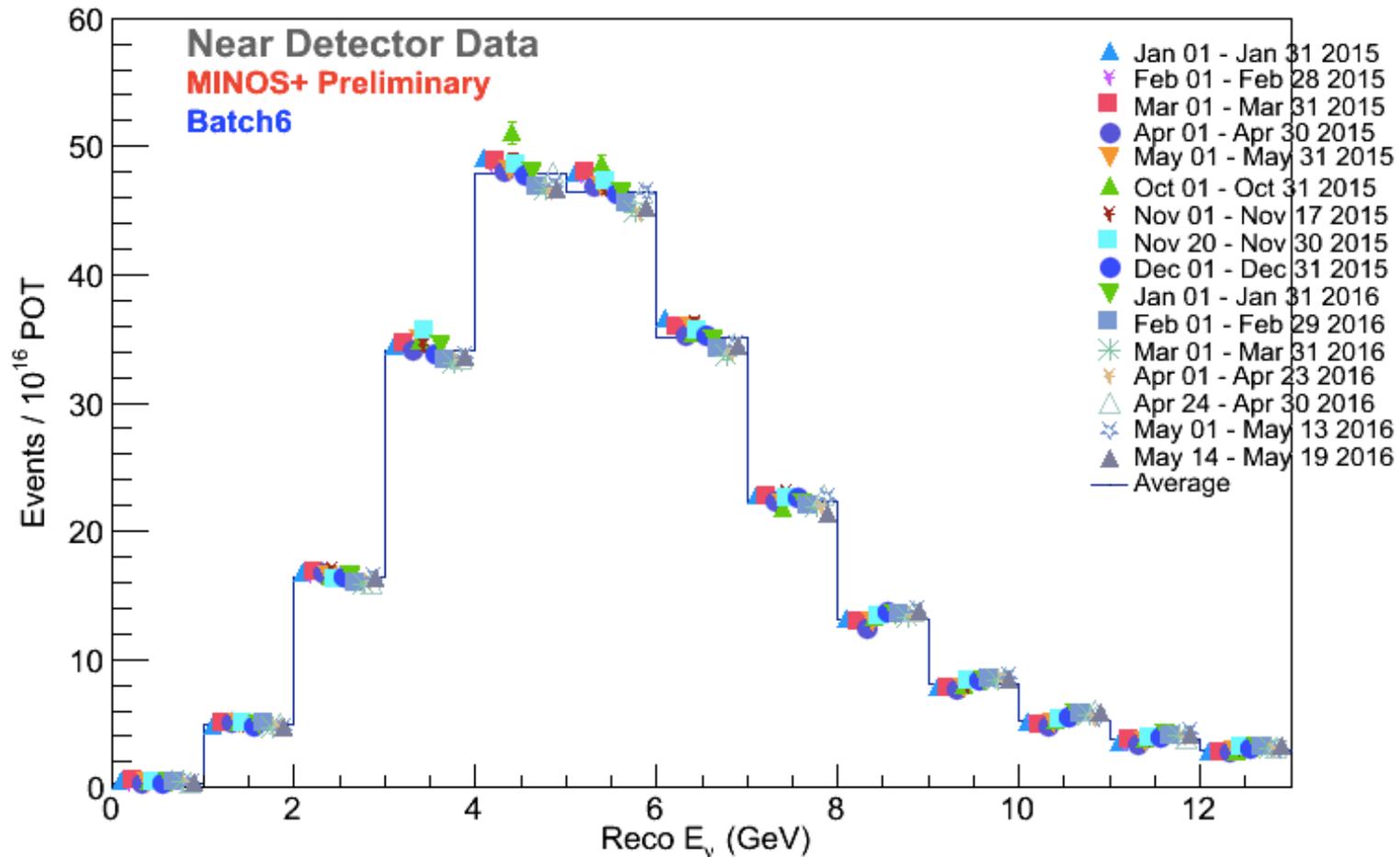




Spectrum Stability (batch #6)

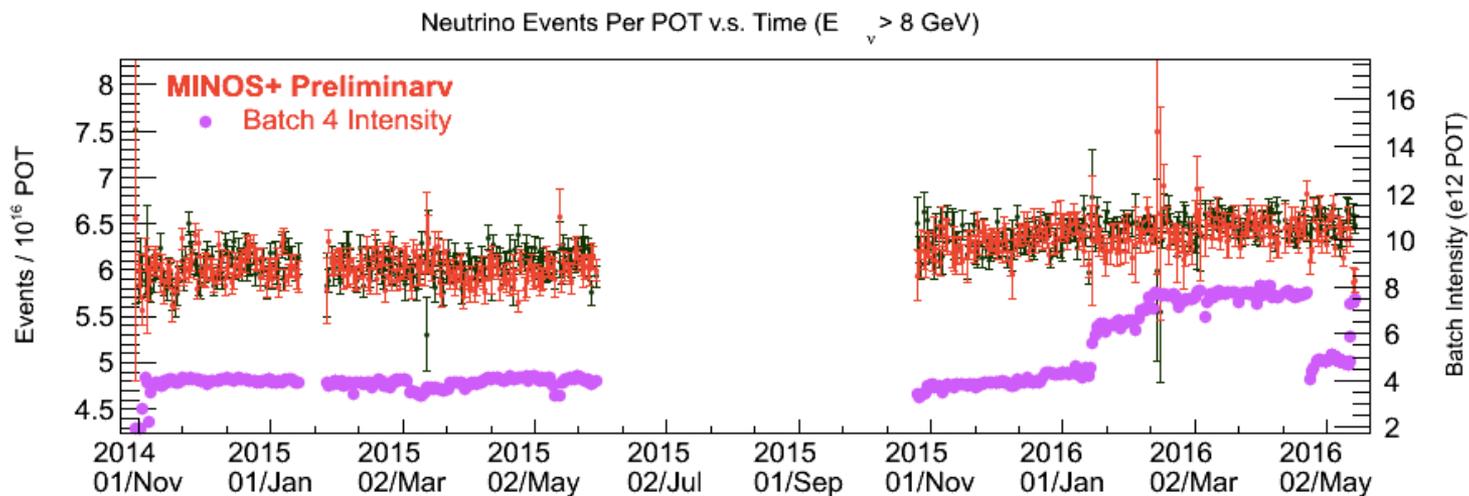
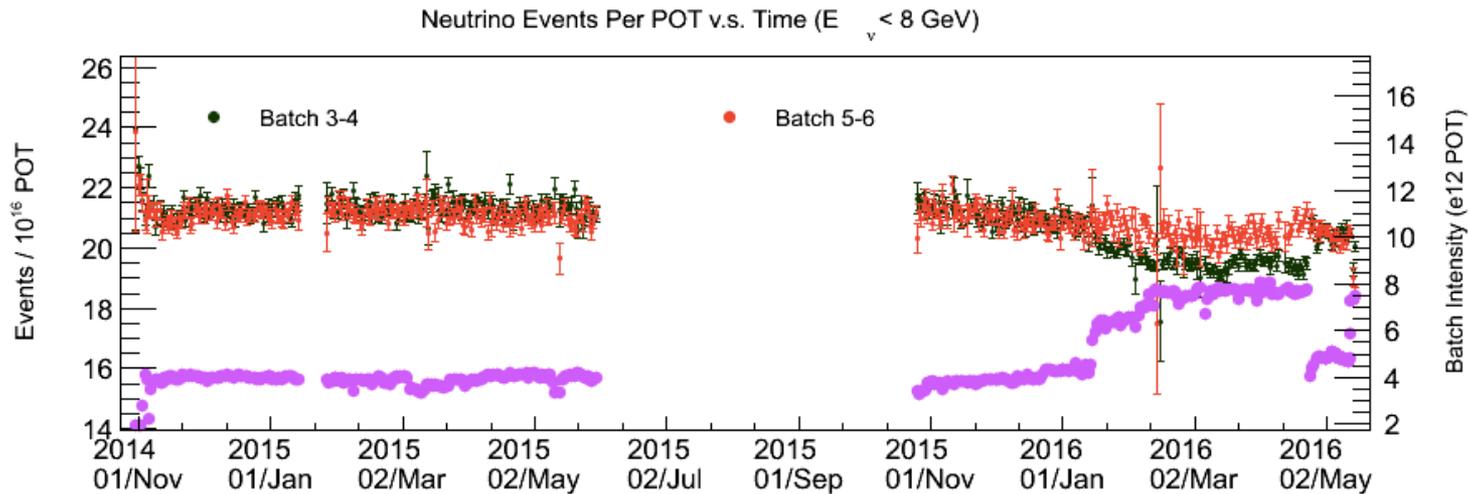


Neutrino Selected Batch Energy Spectrum Stability (PQ and NQ)



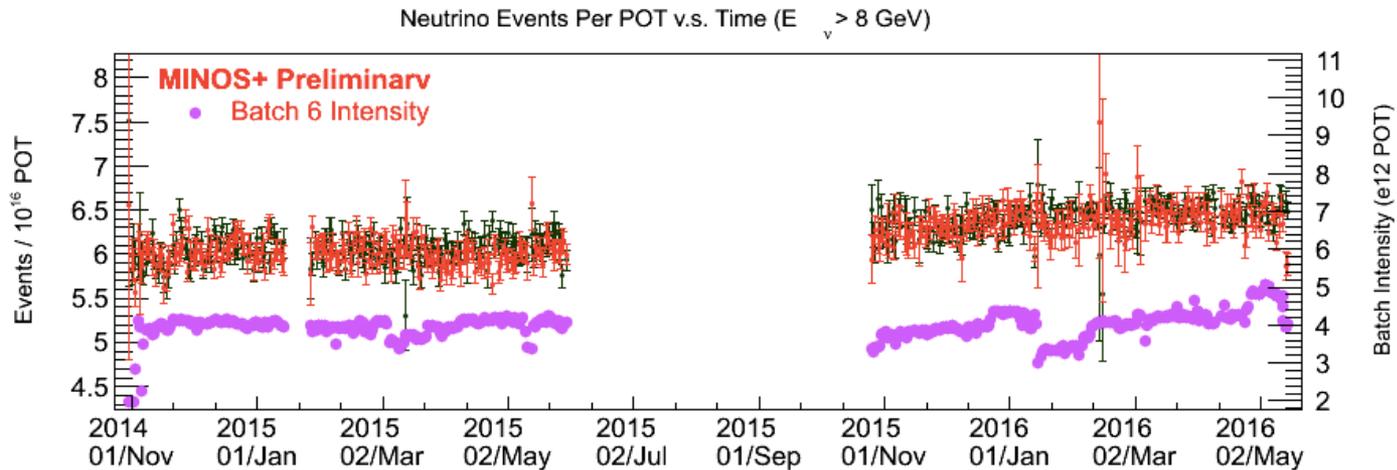
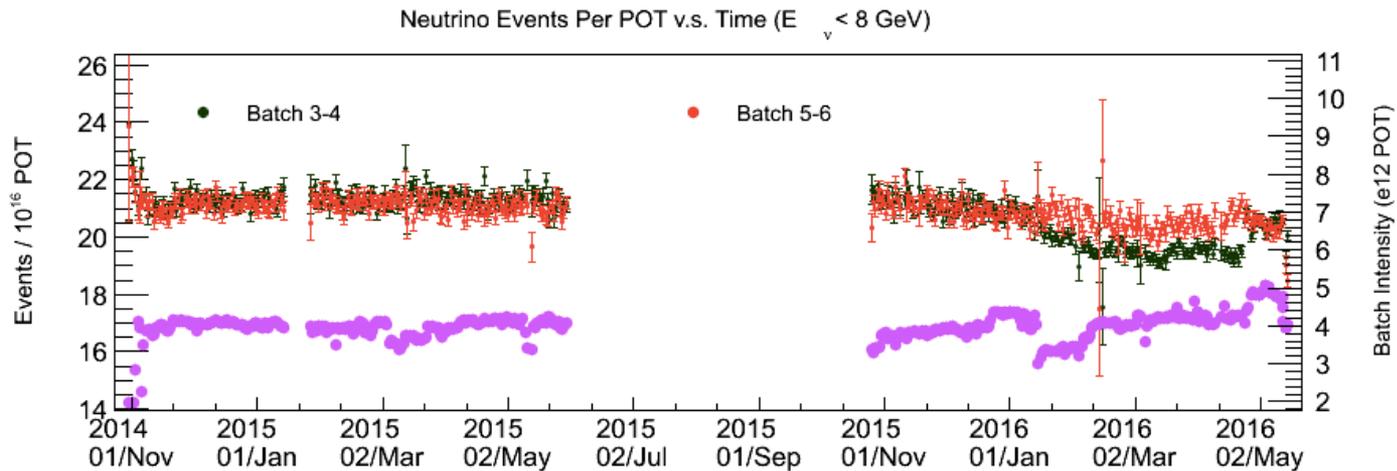


Events/POT vs. Time





Events/POT vs. Time





Events/POT + Intensity



Spectrum by batches available at:

<http://minos.fnal.gov/DataQuality/BatchPage.php>